

**PATENT**/Docket No. 6097.N DV2

Serial No. 10/600,815.

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Art Unit : 1641  
Examiner : Pensee T. Do  
Applicant(s) : D.E. Epps, C.K. Marschke  
Serial Number : 10/600,815  
Filed : 20 June 2003  
For : Fluorescence-Based High Throughput Screening Assays For Protein Kinases and Phosphatases

Per our phone conversation today. This is what was intended by the Amendment Filed on 7/15/2004.  
I apologize for the inconvenience.

1  
/ (new) An article of manufacture comprising, packaged together:

- (i) a reporter molecule comprising a fluorescent label and a phosphorylated amino acid,
- (ii) an antibody which selectively binds to a molecule comprising said phosphorylated amino acid; and
- (iii) a substrate molecule comprising the same amino acid molecule that is phosphorylated in said reporter molecule;

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wherein said substrate molecule is labeled with an acceptor fluorophore and wherein said antibody is labeled with a donor fluorophore which corresponds to the acceptor fluorophore labeling said substrate molecule.

- 2  
10. (new) The article of manufacture of claim <sup>1</sup>9 wherein said phosphorylated amino acid is selected from the group consisting of serine, threonine and tyrosine.
- 3  
11. (new) The article of manufacture of claim <sup>1</sup>9 further comprising an enzyme selected from the group consisting of kinases and phosphatases.
- 4  
12. (new) The article of manufacture of claim <sup>3</sup>11 wherein the enzyme is a kinase.
- 5  
13. (new) The article of manufacture of claim <sup>3</sup>11 wherein the enzyme is a phosphatase.
- 6  
14. (new). The article of manufacture of claim <sup>1</sup>9 further comprising a phosphate source.
- 7  
15. (new) The article of manufacture of claim <sup>6</sup>14 further comprising an enzyme selected from the group consisting of kinases and phosphatases.
- 8  
16. (new) The article of manufacture of claim <sup>7</sup>15 wherein the enzyme is a kinase.
- 9  
17. (new) The article of manufacture of claim <sup>7</sup>15 wherein the enzyme is a phosphatase.
- 10  
18. (new) The article of manufacture of claim <sup>1</sup>9 further comprising a phosphate acceptor.
- 11  
19. (new) The article of manufacture of claim <sup>10</sup>14 18 further comprising an enzyme selected from the group consisting of kinases and phosphatases.
- 12  
20. (new) The article of manufacture of claim <sup>11</sup>19 wherein the enzyme is a kinase.
- 13  
21. (new) The article of manufacture of claim <sup>11</sup>19 wherein the enzyme is a phosphatase.
- 14  
22. (new) An article of manufacture comprising, packaged together:  
(i) a reporter molecule comprising a fluorescent label and a phosphorylated amino acid,

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(ii) an antibody which selectively binds to a molecule comprising said phosphorylated amino acid; and  
(iii) a substrate molecule comprising the same amino acid molecule that is phosphorylated in said reporter molecule;  
wherein said substrate molecule is labeled with an donor fluorophore and wherein said antibody is labeled with a acceptor fluorophore which corresponds to the donor fluorophore labeling said substrate.

<sup>15</sup>  
23. (new) The article of manufacture of claim <sup>14</sup>22 wherein said phosphorylated amino acid is selected from the group consisting of serine, threonine and tyrosine.

<sup>16</sup>  
24. (new) The article of manufacture of claim <sup>14</sup>22 further comprising an enzyme selected from the group consisting of kinases and phosphatases.

<sup>17</sup>  
25. (new) The article of manufacture of claim <sup>16</sup>24 wherein the enzyme is a kinase.

<sup>18</sup>  
26. (new) The article of manufacture of claim <sup>16</sup>24 wherein the enzyme is a phosphatase.

<sup>19</sup>  
Rule 1.126 25. <sup>14</sup>27 (new) The article of manufacture of claim 22 further comprising a phosphate source.

<sup>20</sup>  
Rule 1.126 26. <sup>19</sup>28 (new) The article of manufacture of claim 25 <sup>19</sup>27 further comprising an enzyme selected from the group consisting of kinases and phosphatases.

<sup>21</sup>  
Rule 1.126 27. <sup>20</sup>29 (new) The article of manufacture of claim 26 <sup>20</sup>28 wherein the enzyme is a kinase.

<sup>22</sup>  
Rule 1.126 28. <sup>20</sup>30 (new) The article of manufacture of claim 26 <sup>20</sup>28 wherein the enzyme is a phosphatase.

<sup>23</sup>  
Rule 1.126 29. <sup>14</sup>31 (new) The article of manufacture of claim 22 further comprising a phosphate acceptor.

<sup>24</sup>  
Rule 1.126 30. <sup>23</sup>32 (new) The article of manufacture of claim 29 <sup>23</sup>31 further comprising an enzyme selected from the group consisting of kinases and phosphatases.

<sup>25</sup>  
R. 1.126 31. <sup>24</sup>33 (new) The article of manufacture of claim 30 <sup>24</sup>32 wherein the enzyme is a kinase.

<sup>26</sup>  
R. 1.126 32. <sup>24</sup>34 (new) The article of manufacture of claim 30 <sup>24</sup>32 wherein the enzyme is a phosphatase.

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